

AAAAAAAAAA NNN NNN AAAAAAAA LLL YYY YYY ZZZZZZZZZZZZZZZZ
AAAAAAAAAA NNN NNN AAAAAAAA LLL YYY YYY ZZZZZZZZZZZZZZZZ
AAAAAAAAAA NNN NNN AAAAAAAA LLL YYY YYY ZZZZZZZZZZZZZZZZ
AAA AAA NNN NNN AAA AAA LLL YYY YYY ZZZ
AAA AAA NNN NNN AAA AAA LLL YYY YYY ZZZ
AAA AAA NNN NNN AAA AAA LLL YYY YYY ZZZ
AAA AAA NNNNNN NNN AAA AAA LLL YYY YYY ZZZ
AAA AAA NNNNNN NNN AAA AAA LLL YYY YYY ZZZ
AAA AAA NNNNNN NNN AAA AAA LLL YYY YYY ZZZ
AAA AAA NNN NNN NNN AAA AAA LLL YYY ZZZ
AAA AAA NNN NNN NNN AAA AAA LLL YYY ZZZ
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AAAAAAAAAAAAAA NNN NNNNNN AAAAAAAA LLL YYY ZZZ
AAAAAAAAAAAAAA NNN NNNNNN AAAAAAAA LLL YYY ZZZ
AAA AAA NNN NNN AAA AAA LLL YYY ZZZ
AAA AAA NNN NNN AAA AAA LLL YYY ZZZ
AAA AAA NNN NNN AAA AAA LLL YYY ZZZ
AAA AAA NNN NNN AAA AAA LLL LLLLLLLL LLLL YYY ZZZZZZZZZZZZZZ
AAA AAA NNN NNN AAA AAA LLL LLLLLLLL LLLL YYY ZZZZZZZZZZZZZZ
AAA AAA NNN NNN AAA AAA LLL LLLLLLLL LLLL YYY ZZZZZZZZZZZZZZ

EEEEEEEEE	XX	XX	EEEEEEEEE	FFFFFFFFF		XX	XX	UU	UU	PPPPPPPP
EEEEEEEEE	XX	XX	EEEEEEEEE	FFFFFFFFF		XX	XX	UU	UU	PPPPPPPP
EE	XX	XX	EE	FF		XX	XX	UU	UU	PP PP
EE	XX	XX	EE	FF		XX	XX	UU	UU	PP PP
EE	XX	XX	EE	FF		XX	XX	UU	UU	PP PP
EE	XX	XX	EE	FF		XX	XX	UU	UU	PP PP
EEEEEEEEE	XX	XX	EEEEEEEEE	FFFFFFFFF		XX	XX	UU	UU	PPPPPPPP
EEEEEEEEE	XX	XX	EEEEEEEEE	FFFFFFFFF		XX	XX	UU	UU	PPPPPPPP
EE	XX	XX	EE	FF		XX	XX	UU	UU	PP
EE	XX	XX	EE	FF		XX	XX	UU	UU	PP
EE	XX	XX	EE	FF		XX	XX	UU	UU	PP
EE	XX	XX	EE	FF		XX	XX	UU	UU	PP
EEEEEEEEE	XX	XX	EEEEEEEEE	FF		XX	XX	UU	UU	PP
EEEEEEEEE	XX	XX	EEEEEEEEE	FF		XX	XX	UUUUUUUUUU	UU	PP

LL		SSSSSSSS
LL		SSSSSSSS
LL		SS
LL		SS
LL		SS
LL		SSSSSS
LL		SSSSSS
LL		SS
LLLLLLLLL		SSSSSSSS
LLLLLLLLL		SSSSSSSS

```
1 0001 0 Ztitle 'EXEFIXUP - Analyze Fixup Info'
2 0002 0 module exefixup (
3 0003 1 ident='V04-000') = begin
4 0004 1
5 0005 1
6 0006 1 ****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *
26 0026 1 *
27 0027 1 ****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 Facility: VAX/VMS Analyze Facility, Analyze Image Fixup Info
32 0032 1
33 0033 1 Abstract: This module is responsible for analyzing the fixup info
34 0034 1 section of an image. This section contains info necessary
35 0035 1 for the linking and activation of shareable images.
36 0036 1
37 0037 1
38 0038 1 Environment:
39 0039 1
40 0040 1 Author: Paul C. Anagnostopoulos, Creation Date: 20 April 1981
41 0041 1
42 0042 1 Modified By:
43 0043 1
44 0044 1 V03-003 MCN0167 Maria del C. Nasr 02-May-1984
45 0045 1 Get the length of the fixup section cells only once,
46 0046 1 for the first one, and use this value for all the cells.
47 0047 1
48 0048 1 V03-002 MCN0158 Maria del C. Nasr 22-Mar-1984
49 0049 1 Use SHLSC_MAXNAMLNG for size of shareable image name
50 0050 1 to pass as a parameter to ANL$CHECK_SYMBOL. Eliminate
51 0051 1 declaration of local loop counter I. Determine the
52 0052 1 length to add for the fixup section, to support new
53 0053 1 length.
54 0054 1
55 0055 1 V03-001 PCA1011 Paul C. Anagnostopoulos 1-Apr-1983
56 0056 1 Change the message prefix to ANLOBJS to ensure that
57 0057 1 message symbols are unique across all ANALYZEs. This
```

EXEFIXUP
V04-000

EXEFIXUP - Analyze Fixup Info

E 13
15-Sep-1984 23:47:03 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 11:52:43 [ANALYZ.SRC]EXEFIXUP.B32;1

Page (1) 2

: 58

0058 1 !--

is necessitated by the new merged message files.

: 59

0059 1 !--

```
61 0060 1 %sbttl 'Module Declarations'
62 0061 1
63 0062 1 | Libraries and Requires:
64 0063 1
65 0064 1
66 0065 1 | library 'lib';
67 0066 1 | require 'objexereq';
68 0502 1
69 0503 1
70 0504 1 | Table of Contents:
71 0505 1
72 0506 1
73 0507 1 | forward routine
74 0508 1 |     anl$image_fixup_info;
75 0509 1
76 0510 1
77 0511 1 | External References:
78 0512 1
79 0513 1
80 0514 1 | external routine
81 0515 1 |     anl$check_flags,
82 0516 1 |     anl$check_symbol,
83 0517 1 |     anl$format_error,
84 0518 1 |     anl$format_flags,
85 0519 1 |     anl$format_line,
86 0520 1 |     anl$format_protection,
87 0521 1 |     anl$interact,
88 0522 1 |     anl$map_fixup_section,
89 0523 1 |     anl$report_page,
90 0524 1 |     anl$report_line;
91 0525 1
92 0526 1 | external
93 0527 1 |     anl$gb_interactive: byte;
94 0528 1
95 0529 1
96 0530 1 | Own Variables:
97 0531 1
```

```
99 0532 1 %sbttl 'ANL$IMAGE_FIXUP_INFO - Analyze Fixup Info'
100 0533 1 ++
101 0534 1 Functional Description:
102 0535 1 This routine is responsible for the analysis of the fixup info
103 0536 1 section of a shareable image.
104 0537 1
105 0538 1 Formal Parameters:
106 0539 1 image_base Starting address of the complete image.
107 0540 1 fixup_size Number of blocks of fixup info.
108 0541 1 fixup_vbn VBN of fixup info.
109 0542 1
110 0543 1 Implicit Inputs:
111 0544 1 global data
112 0545 1
113 0546 1 Implicit Outputs:
114 0547 1 global data
115 0548 1
116 0549 1 Returned Value:
117 0550 1 If interactive session: true if we are to continue, false otherwise.
118 0551 1
119 0552 1 Side Effects:
120 0553 1
121 0554 1 --
122 0555 1
123 0556 1
124 0557 2 global routine anl$image_fixup_info(image_base,fixup_size,fixup_vbn) = begin
125 0558 2
126 0559 2 own
127 0560 2     flags_def: vector[2,long] initial(
128 0561 2         0,
129 0562 2         uplit byte (%ascic 'IAF$V_SHR'));
130 0563 2
131 0564 2 local
132 0565 2     fp: ref block[byte],
133 0566 2     end_ptr: ref block[byte],
134 0567 2     sp: ref block[byte],
135 0568 2     count: long,
136 0569 2     long_array: vector[4,long];
137 0570 2
138 0571 2
139 0572 2 ! We begin with a nice heading on a new page.
140 0573 2
141 0574 2 anl$report_page();
142 0575 2 anl$format_line(0,0,anlobj$_exefixup);
143 0576 2 anl$report_line(-1);
144 0577 2 anl$report_line(-1);
145 0578 2
146 0579 2 ! If the fixup size and VBN are zero, then there was no fixup section.
147 0580 2 ! Tell the user and quit.
148 0581 2
149 0582 3 if .fixup_size eqiu 0 then (
150 0583 3     anl$format_line(0,1,anlobj$_exefixupnone);
151 0584 3     return true;
152 0585 2 );
153 0586 2
154 0587 2 ! Map the fixup section into memory. If the routine returns zero, then
155 0588 2 ! we couldn't, so tell the user.
```

```
156      0589 2
157      0590 2 fp = anl$map_fixup_section(.fixup_size,.fixup_vbn);
158      0591 2 if .fp eqla 0 then(
159          0592 3     anl$format_error(anlobj$_exebadfixupvbn,.fixup_vbn,.fixup_size);
160          0593 3     return;
161          0594 2 );
162          0595 2
163          0596 2 ! Set up a pointer to the end of the section so we can test for it.
164          0597 2
165          0598 2 end_ptr = .fp + .fixup_size*512;
166          0599 2
167          0600 2 ! Now we will format the fixed part of the fixup info. The only items
168          0601 2 we need to bother with are the flags, shareable image count,
169          0602 2 ! and extra allowed count.
170          0603 2
171          0604 2 anl$format_line(3,1,anlobj$_exefixfixed);
172          0605 2 anl$report_line(-1);
173          0606 2 anl$format_flags(2,anlobj$_exefixflags,.fp[iaf$w_flags],flags_def);
174          0607 2 anl$check_flags(.fp[iaf$w_flags],flags_def);
175          0608 2 anl$format_line(0,2,anlobj$_exefixcount,.fp[iaf$l_shimgcnt]);
176          0609 2 anl$format_line(0,2,anlobj$_exefixextra,.fp[iaf$l_shlextra]);
177          0610 2
178          0611 2 ! If this is an interactive session, then let's see what the user wants to do.
179          0612 2
180          0613 2 if .anl$gb_interactive then
181              0614 2     if not anl$interact() then
182                  0615 2         return false;
```

```
184 0616 2 : Now we are going to print the shareable image list. This involves
185 0617 2 : only the name of the image. And the first list entry has no name,
186 0618 2 : because it refers to this image.
187 0619 2
188 0620 2 anl$report_line(-1);
189 0621 2 anl$format_line(3,1,anlobj$_exefixlist);
190 0622 2 anl$report_line(-1);
191 0623 2
192 0624 2 sp = .fp + .fp[iaf$1_shl$toff];
193 0625 2
194 0626 begin
195 0627
196 0628 local
197 0629     cell_size;
198 0630
199 0631 If .sp[shl$b_shl_size] neq 0
200 0632 then
201 0633     cell_size = .sp[shl$b_shl_size]
202 0634 else
203 0635     cell_size = shl$c_old_shl_size;
204 0636
205 0637 incr i from 0 to .fp[iaf$1_shrimgcnt]-1 do (
206 0638     local
207 0639         name_dsc: descriptor;
208 0640
209 0641     if .i eqiu 0 then
210 0642         anl$format_line(0,2,anlobj$_exefixname0,,i)
211 0643     else (
212 0644         anl$format_line(0,2,anlobj$_exefixname,,i,sp[shl$t_imgnam]);
213 0645         build_descriptor(name_dsc,,sp[shl$b_naming],sp[shl$t_imgnam]+1);
214 0646         anl$check_symbol(name_dsc, shl$c_maxnamlng);
215 0647     );
216 0648     sp = .sp + .cell_size;
217 0649 );
218 0650 end;
219 0651
220 0652 ! If this is an interactive session, then let's see what the user wants to do.
221 0653
222 0654 if .anl$gb_interactive then
223 0655     if not anl$interact() then
224 0656         return false;
```

```
226 0657 2 ! Now we will analyze the external address data (G* fixups). For each
227 0658 2 shareable image with such fixups, we have a fixup count, the image
228 0659 2 number, and a list of references.
229 0660 2
230 0661 2
231 0662 2 if .fp[iaf$!_g_fixoff] nequ 0 then (
232 0663 2
233 0664 3     anl$report_line(-1);
234 0665 3     anl$format_line(3,1,anlobj$_exefixg);
235 0666 3     sp = .fp + .fp[iaf$[_g_fixoff]];
236 0667 3
237 0668 3     ! Loop until we get to the end of the data.
238 0669 3
239 0670 4     while .sp[0,0,32,0] nequ 0 do (
240 0671 4
241 0672 4         ! If we have run off the end of the section, then the
242 0673 4         ! end of data marker is missing.
243 0674 4
244 0675 5         if .sp geqa .end_ptr then (
245 0676 5             anl$format_error(anlobj$_exebadfixupend);
246 0677 5     exitloop;
247 0678 4
248 0679 4
249 0680 4     ! Format a line with the count and image number.
250 0681 4
251 0682 4     count = .sp[0,0,32,0];
252 0683 4     sp = .sp + 4;
253 0684 4     anl$report_line(-1);
254 0685 4     anl$format_line(2,2,anlobj$_exefixgimage..count..sp[0,0,32,0]);
255 0686 4     sp = .sp + 4;
256 0687 4
257 0688 4     ! Loop through the references and format them 4 to a line.
258 0689 4
259 0690 5     incr i from 0 to .count-1 do (
260 0691 5         long_array[i mod 4] = .sp[0,0,32,0];
261 0692 5         sp = .sp + 4;
262 0693 5
263 0694 5         if .i mod 4 eqiu 3 or .i eglu .count-1 then
264 0695 5             anl$format_line(0,3,anlobj$_exefixgline..i mod 4 + 1,
265 0696 5             .long_array[0]..long_array[1]..long_array[2]..long_array[3])
266 0697 4
267 0698 3
268 0699 3
269 0700 3     ! If this is an interactive session, then let's see what the user
270 0701 3     ! wants to do.
271 0702 3
272 0703 3     if .anl$gb_interactive then
273 0704 3         if not anl$interact() then
274 0705 3             return false;
275 0706 2 );
```

```
277 0707 2 : Now we will analyze the internal address data (.ADDRESS fixups). For each
278 0708 2 : shareable image with such fixups, we have a fixup count, the image
279 0709 2 : number, and a list of offsets.
280 0710 2
281 0711 2 if .fp[iaf$_.dotadroff] nequ 0 then (
282 0712 2
283 0713 3   ! Put out a heading line including the base address of the image,
284 0714 3   ! since the address are relative to it.
285 0715 3
286 0716 3   anl$report_line(-1);
287 0717 3   anl$format_line(3,1,anlobj$_.exefixa..image_base);
288 0718 3   sp = .fp + .fp[iaf$_.dotadroff];
289 0719 3
290 0720 3   ! Loop until we get to the end of the data.
291 0721 3
292 0722 4   while .sp[0,0,32,0] nequ 0 do (
293 0723 4
294 0724 4   ! If we have run off the end of the section, then the
295 0725 4   ! end of data marker is missing.
296 0726 4
297 0727 5   if .sp geqa .end_ptr then (
298 0728 5     anl$format_error(anlobj$_.exebadfixupend);
299 0729 5   exitloop:
300 0730 4   );
301 0731 4
302 0732 4   ! Format a line with the count and image number.
303 0733 4
304 0734 4   count = .sp[0,0,32,0];
305 0735 4   sp = .sp + 4;
306 0736 4   anl$report_line(-1);
307 0737 4   anl$format_line(2,2,anlobj$_.exefixaimage..count..sp[0,0,32,0]);
308 0738 4   sp = .sp + 4;
309 0739 4
310 0740 4   ! Loop through the references and format them 4 to a line.
311 0741 4
312 0742 5   incr i from 0 to .count-1 do (
313 0743 5     long_array[i mod 4] = .sp[0,0,32,0];
314 0744 5     sp = .sp + 4;
315 0745 5
316 0746 5   if .i mod 4 eglu 3 or .i eglu .count-1 then
317 0747 5     anl$format_line(0,3,anlobj$_.exefixaimage..i mod 4 + 1,
318 0748 5     .long_array[0]..long_array[1]..long_array[2]..long_array[3])
319 0749 4   );
320 0750 3
321 0751 3
322 0752 3   ! If this is an interactive session, then let's see what the user
323 0753 3   ! wants to do.
324 0754 3
325 0755 3   if .anl$gb_interactive then
326 0756 3     if not anl$interact() then
327 0757 3       return false;
328 0758 2 );
```

```
0759 2 : Now we will analyze the section protection change data. This consists
0760 2 : of a count of changes, followed by the changes. Each change specifies
0761 2 : the address and extent of the section, along with its new protection.
0762 2
0763 3 if .fp[iaf$1_chgprt0ff] nequ 0 then (
0764 3
0765 3   ! Put out a heading line including the base address of the image,
0766 3   ! since the address are relative to it.
0767 3
0768 3   anl$report_line(-1);
0769 3   anl$format_line(3,1,anlobj$_exefixp..image_base);
0770 3   sp = .fp + .fp[iaf$1_chgprt0ff];
0771 3   count = .sp[0,0,32,0];
0772 3   sp = .sp + 4;
0773 3
0774 3   ! Now we will loop through the change entries.
0775 3
0776 4   incru i from 1 to .count do (
0777 4
0778 4     ! If we have run off the end of the section, then the
0779 4     ! count is screwed up.
0780 4
0781 5     if .sp geqa .end_ptr then (
0782 5       anl$format_error(anlobj$_exebadfixupend);
0783 5   exitloop;
0784 4
0785 4
0786 4   ! Format the information about this change.
0787 4
0788 4   anl$report_line(-1);
0789 4   anl$format_line(2,2,anlobj$_exefixpsect..sp[icp$1_baseva]..sp[icp$w_npages]);
0790 4   anl$format_protection(2,.sp[icp$w_newprt]);
0791 4
0792 4   ! Advance to the next change entry.
0793 4
0794 4   sp = .sp + 8;
0795 4
0796 4
0797 4   ! If this is an interactive session, then let's see what the user
0798 4   ! wants to do.
0799 4
0800 5   if .anl$gb_interactive then
0801 5     if not anl$interact() then
0802 5       return false;
0803 2 );
```

```

376 0804 2 ! We are all done. Free up the memory mapping the fixup section.
377 0805 2
378 0806 2 anl$map_fixup_section();
379 0807 2
380 0808 2 return true;
381 0809 2
382 0810 1 end:
INFO#212 L1:0592
: Null expression appears in value-required context

```

```

.TITLE EXEFIXUP EXEFIXUP - Analyze Fixup Info
.IDENT \V04-000\

.PSECT SPLITS,NOWRT,NOEXE,2
52 48 53 5F 56 24 46 41 49 09 00000 P.AAA: .ASCII <9>\IAFSV_SHR\

.PSECT SOWNS,NOEXE,2
00000000 00000 FLAGS_DEF:
00000000' 00004 .LONG 0
                           .ADDRESS P.AAA

:EXTRN ANLOBJS_OK, ANLOBJS_ANYTHING
:EXTRN ANLOBJS_DATATYPE
:EXTRN ANLOBJS_ERRORCOUNT
:EXTRN ANLOBJS_ERRORNONE
:EXTRN ANLOBJS_ERRORS, ANLOBJS_EXEFIXA
:EXTRN ANLOBJS_EXEFIXALINE
:EXTRN ANLOBJS_EXEFIXCOUNT
:EXTRN ANLOBJS_EXEFIXEXTRA
:EXTRN ANLOBJS_EXEFIXFIXED
:EXTRN ANLOBJS_EXEFIXFLAGS
:EXTRN ANLOBJS_EXEFIXG
:EXTRN ANLOBJS_EXEFIXGIMAGE
:EXTRN ANLOBJS_EXEFIXGLINE
:EXTRN ANLOBJS_EXEFIXLIST
:EXTRN ANLOBJS_EXEFIXNAME
:EXTRN ANLOBJS_EXEFIXNAMEO
:EXTRN ANLOBJS_EXEFIXP
:EXTRN ANLOBJS_EXEFIXPSECT
:EXTRN ANLOBJS_EXEFIXUP
:EXTRN ANLOBJS_EXEFIXUPNONE
:EXTRN ANLOBJS_EXEGST, ANLOBJS_EXEHDR
:EXTRN ANLOBJS_EXEHDRACTIVE
:EXTRN ANLOBJS_EXEHDRBLKCOUNT
:EXTRN ANLOBJS_EXEHDRCHANCOUNT
:EXTRN ANLOBJS_EXEHDRCHANDEF
:EXTRN ANLOBJS_EXEHDRDECECO
:EXTRN ANLOBJS_EXEHDRDMT
:EXTRN ANLOBJS_EXEHDRDST
:EXTRN ANLOBJS_EXEHDRFILEID
:EXTRN ANLOBJS_EXEHDRFIXED
:EXTRN ANLOBJS_EXEHDRFLAGS
:EXTRN ANLOBJS_EXEHDRGBLIDENT
:
```

.EXTRN ANLOBJS_EXEHDRGST
.EXTRN ANLOBJS_EXEHDRIDENT
.EXTRN ANLOBJS_EXEHDRIMAGEID
.EXTRN ANLOBJS_EXEHDRISD
.EXTRN ANLOBJS_EXEHDRISDBASE
.EXTRN ANLOBJS_EXEHDRISDCOUNT
.EXTRN ANLOBJS_EXEHDRISDFLAGS
.EXTRN ANLOBJS_EXEHDRISDGLNAM
.EXTRN ANLOBJS_EXEHDRISDNUM
.EXTRN ANLOBJS_EXEHDRISDPFCDEF
.EXTRN ANLOBJS_EXEHDRISDPFCSIZ
.EXTRN ANLOBJS_EXEHDRISDTYPE
.EXTRN ANLOBJS_EXEHDRISDVBN
.EXTRN ANLOBJS_EXEHDRLINKID
.EXTRN ANLOBJS_EXEHDRMATCH
.EXTRN ANLOBJS_EXEHDRNAME
.EXTRN ANLOBJS_EXEHDRNOPATCH
.EXTRN ANLOBJS_EXEHDRPAGECOUNT
.EXTRN ANLOBJS_EXEHDRPAGEDEF
.EXTRN ANLOBJS_EXEHDRPATCH
.EXTRN ANLOBJS_EXEHDRPATCHDATE
.EXTRN ANLOBJS_EXEHDRPRIV
.EXTRN ANLOBJS_EXEHDRROPATCH
.EXTRN ANLOBJS_EXEHDRRWPATCH
.EXTRN ANLOBJS_EXEHDRSYMDBG
.EXTRN ANLOBJS_EXEHDRSYVER
.EXTRN ANLOBJS_EXEHDRTEXTBN
.EXTRN ANLOBJS_EXEHDRTIME
.EXTRN ANLOBJS_EXEHDRTYPEEXE
.EXTRN ANLOBJS_EXEHDRTYPELIM
.EXTRN ANLOBJS_EXEHDRUSERECO
.EXTRN ANLOBJS_EXEHDRXFER1
.EXTRN ANLOBJS_EXEHDRXFER2
.EXTRN ANLOBJS_EXEHDRXFER3
.EXTRN ANLOBJS_EXEHEADER
.EXTRN ANLOBJS_EXEPATCH
.EXTRN ANLOBJS_FLAG, ANLOBJS_HECDATA
.EXTRN ANLOBJS_HEXHEADER1
.EXTRN ANLOBJS_HEXHEADER2
.EXTRN ANLOBJS_INMSGSEC
.EXTRN ANLOBJS_INTERACT
.EXTRN ANLOBJS_MASK, ANLOBJS_OBJCPREC
.EXTRN ANLOBJS_OBJDBGREC
.EXTRN ANLOBJS_OBJENV, ANLOBJS_OBJEOMFLAGS
.EXTRN ANLOBJS_OBJEOMREC
.EXTRN ANLOBJS_OBJEOMSEVABT
.EXTRN ANLOBJS_OBJEOMSEVERR
.EXTRN ANLOBJS_OBJEOMSEVIGN
.EXTRN ANLOBJS_OBJEOMSEVRES
.EXTRN ANLOBJS_OBJEOMSEVSUC
.EXTRN ANLOBJS_OBJEOMSEVWRN
.EXTRN ANLOBJS_OBJEOMWREC
.EXTRN ANLOBJS_OBJFADPASSMECH
.EXTRN ANLOBJS_OBJGSDENV
.EXTRN ANLOBJS_OBJGSDENVFLAGS
.EXTRN ANLOBJS_OBJGSDENVPAR
.EXTRN ANLOBJS_OBJGSDEPM

.EXTRN ANLOBJS\$OBJGSDPMW
.EXTRN ANLOBJS\$OBJGSDIDC
.EXTRN ANLOBJS\$OBJGSDIDCENT
.EXTRN ANLOBJS\$OBJGSDIDCFLAGS
.EXTRN ANLOBJS\$OBJGSDIDCMATCH
.EXTRN ANLOBJS\$OBJGSDIDCOBJ
.EXTRN ANLOBJS\$OBJGSDIDCVALA
.EXTRN ANLOBJS\$OBJGSDIDCVALB
.EXTRN ANLOBJS\$OBJGSDLEPM
.EXTRN ANLOBJS\$OBJGSDLPRO
.EXTRN ANLOBJS\$OBJGSDLSY
.EXTRN ANLOBJS\$OBJGSDPRO
.EXTRN ANLOBJS\$OBJGSDPROW
.EXTRN ANLOBJS\$OBJGSDPSC
.EXTRN ANLOBJS\$OBJGSDPSCALIGN
.EXTRN ANLOBJS\$OBJGSDPSCALLOC
.EXTRN ANLOBJS\$OBJGSDPSCBASE
.EXTRN ANLOBJS\$OBJGSDPSCFLAGS
.EXTRN ANLOBJS\$OBJGSDREC
.EXTRN ANLOBJS\$OBJGSDSPSC
.EXTRN ANLOBJS\$OBJGSDSYM
.EXTRN ANLOBJS\$OBJGSDSYMW
.EXTRN ANLOBJS\$OBJGTXREC
.EXTRN ANLOBJS\$OBJHDRIGNREC
.EXTRN ANLOBJS\$OBJHEADING
.EXTRN ANLOBJS\$OBJLITINDEX
.EXTRN ANLOBJS\$OBJLNKREC
.EXTRN ANLOBJS\$OBJLNMRREC
.EXTRN ANLOBJS\$OBJMHDCREATE
.EXTRN ANLOBJS\$OBJMHDNAME
.EXTRN ANLOBJS\$OBJMHDPATCH
.EXTRN ANLOBJS\$OBJMHDKREC
.EXTRN ANLOBJS\$OBJMHDRCSIZ
.EXTRN ANLOBJS\$OBJMHDSTRLVL
.EXTRN ANLOBJS\$OBJMHDVERSION
.EXTRN ANLOBJS\$OBJMTCCORRECT
.EXTRN ANLOBJS\$OBJMTCINPUT
.EXTRN ANLOBJS\$OBJMTCNAME
.EXTRN ANLOBJS\$OBJMTCREC
.EXTRN ANLOBJS\$OBJMTCSEQNUM
.EXTRN ANLOBJS\$OBJMTCUIC
.EXTRN ANLOBJS\$OBJMTCVERSION
.EXTRN ANLOBJS\$OBJMTCWHEN
.EXTRN ANLOBJS\$OBJPROARGCOUNT
.EXTRN ANLOBJS\$OBJPROARGNUM
.EXTRN ANLOBJS\$OBJPSECT
.EXTRN ANLOBJS\$OBJSRCREC
.EXTRN ANLOBJS\$OBJSTATHEADING1
.EXTRN ANLOBJS\$OBJSTATHEADING2
.EXTRN ANLOBJS\$OBJSTATLINE
.EXTRN ANLOBJS\$OBJSTATTOTAL
.EXTRN ANLOBJS\$OBJSYMBOL
.EXTRN ANLOBJS\$OBJSYMFLAGS
.EXTRN ANLOBJS\$OBJTIRARGINDEX
.EXTRN ANLOBJS\$OBJTIRCMD
.EXTRN ANLOBJS\$OBJTIRCMDSTK
.EXTRN ANLOBJS\$OBJTBTREC

.EXTRN ANLOBJS_OBJTIRREC
.EXTRN ANLOBJS_OBJTIRSTOIM
.EXTRN ANLOBJS_OBJTIRVIELD
.EXTRN ANLOBJS_OBJTTLREC
.EXTRN ANLOBJS_OBJVALUE
.EXTRN ANLOBJS_OBJUVALUE
.EXTRN ANLOBJS_PROTECTION
.EXTRN ANLOBJS_SEVERITY
.EXTRN ANLOBJS_TEXT, ANLOBJS_TEXTHDR
.EXTRN ANLOBJS_NOSUCHMOD
.EXTRN ANLOBJS_BADDATE
.EXTRN ANLOBJS_BADHDRBLKCOUNT
.EXTRN ANLOBJS_BADSEVERITY
.EXTRN ANLOBJS_BADSYM1ST
.EXTRN ANLOBJS_BADSYMCHAR
.EXTRN ANLOBJS_BADSYMLEN
.EXTRN ANLOBJS_EXEBADFIXUPEND
.EXTRN ANLOBJS_EXEBADFIXUPISD
.EXTRN ANLOBJS_EXEBADFIXUPVBN
.EXTRN ANLOBJS_EXEBADISDS1
.EXTRN ANLOBJS_EXEBADISDTYPE
.EXTRN ANLOBJS_EXEBADMATCH
.EXTRN ANLOBJS_EXEBADPATCHLEN
.EXTRN ANLOBJS_EXEBADOBJ
.EXTRN ANLOBJS_EXEBADTYPE
.EXTRN ANLOBJS_EXEBADXERO
.EXTRN ANLOBJS_EXEHDRISDLONG
.EXTRN ANLOBJS_EXEHDRLONG
.EXTRN ANLOBJS_EXEISDLENDZRO
.EXTRN ANLOBJS_EXEISDLENGBL
.EXTRN ANLOBJS_EXEISDLENPRI
.EXTRN ANLOBJS_EXENOTNATIVE
.EXTRN ANLOBJS_EXTRABYTES
.EXTRN ANLOBJS_FIELDFIT
.EXTRN ANLOBJS_FLAGERROR
.EXTRN ANLOBJS_NOTOK, ANLOBJS_OBJBADIDCMATCH
.EXTRN ANLOBJS_OBJBADNUM
.EXTRN ANLOBJS_OBJBADPOP
.EXTRN ANLOBJS_OBJBADPUSH
.EXTRN ANLOBJS_OBJBADTYPE
.EXTRN ANLOBJS_OBJBADVIELD
.EXTRN ANLOBJS_OBJEOMBADSEV
.EXTRN ANLOBJS_OBJEOMMISSING
.EXTRN ANLOBJS_OBJFADBADA
.EXTRN ANLOBJS_OBJFADBADRBC
.EXTRN ANLOBJS_OBJGSDBADIGN
.EXTRN ANLOBJS_OBJGSDBADSUBTYP
.EXTRN ANLOBJS_OBJHDRRES
.EXTRN ANLOBJS_OBJMHDBADRECSIZ
.EXTRN ANLOBJS_OBJMHDBADSTRLVL
.EXTRN ANLOBJS_OBJMHDMINMISSING
.EXTRN ANLOBJS_OBJNONTIRCMD
.EXTRN ANLOBJS_OBJNOPSC
.EXTRN ANLOBJS_OBJNULLREC
.EXTRN ANLOBJS_OBJPOSPACE
.EXTRN ANLOBJS_OBJPROMINMAX
.EXTRN ANLOBJS_OBJPSCABSLEN

		OFFC 00000				
			.EXTRN	ANLOBJS_OBJRECTOOG		
			.EXTRN	ANLOBJS_OBJTIRRES		
			.EXTRN	ANLOBJS_OBJJUNDEFENV		
			.EXTRN	ANLOBJS_OBJJUNDEFLIT		
			.EXTRN	ANLOBJS_OBJJUNDEFPS		
			.EXTRN	ANALYZES FACILITY		
			.EXTRN	ANL\$CHECK_FLAGS		
			.EXTRN	ANL\$CHECK_SYMBOL		
			.EXTRN	ANL\$FORMAT_ERROR		
			.EXTRN	ANL\$FORMAT_FLAGS		
			.EXTRN	ANL\$FORMAT_LINE		
			.EXTRN	ANL\$FORMAT_PROTECTION		
			.EXTRN	ANL\$INTERACT, ANL\$MAP_FIXUP_SECTION		
			.EXTRN	ANL\$REPORT_PAGE		
			.EXTRN	ANL\$REPORT_LINE		
			.EXTRN	ANL\$GB_INTERACTIVE		
			.PSECT	\$CODES,NOWRT,2		
			.ENTRY	ANL\$IMAGE_FIXUP_INFO, Save R2,R3,R4,R5,R6,- : 0557		
			MOVAB	R7,R8,R9,R10,R11		
			MOVBL	#ANLOBJS_EXEBADFIXUPEND, R10		
			MOVAB	ANL\$REPORT_LINE, R9		
			MOVAB	ANL\$FORMAT_LINE, R8		
			SUBL2	#24, SP		
			CALLS	#0, ANL\$REPORT PAGE		
			PUSHL	#ANLOBJS_EXEFIXUP		
			CLRL	-(SP)		
			CALLS	#3, ANL\$FORMAT_LINE		
			MNEGL	#1, -(SP)		
			CALLS	#1, ANL\$REPORT_LINE		
			MNEGL	#1, -(SP)		
			CALLS	#1, ANL\$REPORT_LINE		
			MOVL	FIXUP_SIZE, R2		
			BNEQ	1\$		
			PUSHL	#ANLOBJS_EXEFIXUPNONE		
			PUSHL	#1		
			CLRL	-(SP)		
			CALLS	#3, ANL\$FORMAT_LINE		
			BRW	35\$		
			PUSHL	FIXUP_VBN		
			PUSHL	R2		
			CALLS	#2, ANL\$MAP_FIXUP_SECTION		
			MOVL	R0, FP		
			BNEQ	3\$		
			PUSHL	R2		
			PUSHL	FIXUP_VBN		
			PUSHL	#ANLOBJS_EXEBADFIXUPVBN		
			CALLS	#3, ANL\$FORMAT_ERROR		
			BRW	36\$		
			ASHL	#9, R2, R2		
			ADDL3	FP, R2, END PTR		
			PUSHL	#ANLOBJS_EXEFIXFIXED		
			PUSHL	#1		
			PUSHL	#3		
			CALLS	#3, ANL\$FORMAT_LINE		
5B	0000G	CF	9E	00002		
5A	00000000G	8F	DD	00007		
59	0000G	CF	9E	0000E		
58	0000G	CF	9E	00013		
5E		18	C2	00018		
CF		00	FB	0001B		
	00000000G	8F	DD	00020		
		7E	7C	00026		
68		03	FB	00028		
7E		01	CE	0002B		
69		01	FB	0002E		
7E		01	CE	00031		
69		01	FB	00034		
52	08	AC	DD	00037		
		10	12	0003B		
	00000000G	8F	DD	0003D		
		01	DD	00043		
		7E	D4	00045		
68		03	FB	00047		
		02CB	31	0004A	1\$:	
		0C	AC	DD	0004D	
		52	DD	00050		
0000G	CF	02	FB	00052		
53		50	DO	00057		
		13	12	0005A		
		52	DD	0005C		
		0C	AC	DD	0005E	
0000G	CF	00000000G	8F	DD	00061	
		03	FB	00067		
		02AD	31	0006C	2\$:	
52	52	09	78	0006F	3\$:	
57	52	53	C1	00073		
		00000000G	8F	DD	00077	
		01	DD	0007D		
		03	DD	0007F		
68		03	FB	00081		

7E	01	CE 00084	MNEGL	#1. -(SP)	0605	
69	01	FB 00087	CALLS	#1. ANLSREPORT_LINE		
7E	0000'	CF 9F 0008A	PUSHAB	FLAGS DEF	0606	
0A	A3 3C 0008E	MOVZWL	10(FP), -(SP)			
00000000G	8F DD 00092	PUSHL	#ANLOBJS_EXEFIXFLAGS			
0000G	02	DD 00098	PUSHL	#2		
CF	04	FB 0009A	CALLS	#4. ANLSFORMAT_FLAGS	0607	
0000'	CF 9F 0009F	PUSHAB	FLAGS DEF			
7E	0A	A3 3C 000A3	MOVZWL	10(FP), -(SP)		
0000G	02	FB 000A7	CALLS	#2. ANLSCHECK_FLAGS	0608	
CF	1C	A3 DD 000AC	PUSHL	28(FP)		
00000000G	8F DD 000AF	PUSHL	#ANLOBJS_EXEFIXCOUNT			
	02	DD 000B5	PUSHL	#2		
	7E	D4 000B7	CLRL	-(SP)		
68	04	FB 000B9	CALLS	#4. ANLSFORMAT_LINE		
	20	A3 DD 000BC	PUSHL	32(FP)	0609	
00000000G	8F DD 000BF	PUSHL	#ANLOBJS_EXEFIXEXTRA			
	02	DD 000C5	PUSHL	#2		
	7E	D4 000C7	CLRL	-(SP)		
68	04	FB 000C9	CALLS	#4. ANLSFORMAT_LINE		
08	68	E9 000CC	BLBC	ANL\$GB_INTERACTIVE. 4\$	0613	
CF	00	FB 000CF	CALLS	#0. ANL\$INTERACT	0614	
95	50	E9 000D4	BLBC	R0, 2\$		
7E	01	CE 000D7	4\$: MNEGL	#1. -(SP)	0620	
69	01	FB 000DA	CALLS	#1. ANLSREPORT_LINE		
00000000G	8F DD 000DD	PUSHL	#ANLOBJS_EXEFIXLIST	0621		
	01	DD 000E3	PUSHL	#1		
	03	DD 000E5	PUSHL	#3		
68	03	FB 000E7	CALLS	#3. ANLSFORMAT_LINE		
7E	01	CE 000EA	MNEGL	#1. -(SP)	0622	
69	01	FB 000ED	CALLS	#1. ANLSREPORT_LINE		
54	53	18	A3 C1 000FO	ADDL3	24(FP), FP, SP	0624
	10	A4 95 000F5	TSTB	16(SP)	0631	
	06	13 000F8	BEQL	5\$		
	55	10	A4 9A 000FA	MOVZBL	16(SP), CELL_SIZE	0633
	03	11 000FE	BRB	6\$		
56	1C	55	38 DO 00100	5\$: MOVL	#56. CELL_SIZE	0635
	1C	A3	01 C3 00103	6\$: SUBL3	#1. 28(FP), R6	0637
			52 D4 00108	CLRL	I	0648
			3F 11 0010A	BRB	10\$	
			52 D5 0010C	7\$: TSTL	I	0641
			11 12 0010E	BNEQ	8\$	
			52 DD 00110	PUSHL	I	0642
			00000000G 8F DD 00112	PUSHL	#ANLOBJS_EXEFIXNAME0	
			02 DD 00118	PUSHL	#2	
			7E D4 0011A	CLRL	-(SP)	
			04 FB 0011C	CALLS	#4. ANLSFORMAT_LINE	
			25 11 0011F	BRB	9\$	
			18 A4 9F 00121	8\$: PUSHAB	24(SP)	0644
			00000000G 52 DD 00124	PUSHL	I	
			8F DD 00126	PUSHL	#ANLOBJS_EXEFIXNAME	
			02 DD 0012C	PUSHL	#2	
			7E D4 0012E	CLRL	-(SP)	
			68 05 FB 00130	CALLS	#5. ANLSFORMAT_LINE	
04	AE	18	A4 9A 00133	MOVZBL	24(SP), NAME_DSC	0645
	19	A4 9E 00137	MOVAB	25(R4), NAME_DSC+4		
	27	DD 0013C	PUSHL	#39	0646	

0000G	CF	04	AE 9F 0013E	PUSHAB	NAME DSC	
	54		02 FB 00141	CALLS	#2, ANL\$CHECK_SYMBOL	0648
			55 C0 00146	ADDL2	CELL_SIZE, SP	0637
	56		52 D6 00149	INCL	I	
			52 D1 0014B	CMPL	I R6	
	08		BC 1B 0014E	BLEQU	7\$	
0000G	CF		68 E9 00150	BLBC	ANL\$GB_INTERACTIVE, 11\$	0654
	03		00 FB 00153	CALLS	#0, ANL\$INTERACT	0655
			50 E8 00158	BLBS	R0 11\$	
	01BE	OC	31 00158	BRW	36\$	
	A3		D5 0015E	TSTL	12(FP)	0662
	03		03 12 00161	BNEQ	12\$	
	009B		31 00163	BRW	20\$	
	7E		01 CE 00166	MNEGL	#1, -(SP)	0664
	69		01 FB 00169	CALLS	#1, ANL\$REPORT_LINE	
	00000000G		8F DD 0016C	PUSHL	#ANLOBJS_EXEFIXG	0665
			01 DD 00172	PUSHL	#1	
			03 DD 00174	PUSHL	#3	
	68		03 FB 00176	CALLS	#3, ANL\$FORMAT_LINE	
54	53	OC	A3 C1 00179	ADDL3	12(FP), FP, SP	0666
			64 D5 0017E	TSTL	(SP)	0670
	57		71 13 00180	BEQL	19\$	
			54 D1 00182	CMPL	SP END_PTR	0675
	09		09 1F 00185	BLSSU	14\$	
	5A		DD 00187	PUSHL	R10	0676
0000G	CF		01 FB 00189	CALLS	#1, ANL\$FORMAT_ERROR	
	52		63 11 0018E	BRB	19\$	0675
	84		DD 00190	MOVL	(SP)+, COUNT	0682
7E	01		CE 00193	MNEGL	#1, -(SP)	0684
69	01		FB 00196	CALLS	#1, ANL\$REPORT_LINE	
	64		DD 00199	PUSHL	(SP)	0685
	52		DD 0019B	PUSHL	COUNT	
	00000000G		8F DD 0019D	PUSHL	#ANLOBJS_EXEFIXGIMAGE	
			02 DD 001A3	PUSHL	#2	
			02 DD 001A5	PUSHL	#2	
	68		05 FB 001A7	CALLS	#5, ANL\$FORMAT_LINE	
	54		C0 001AA	ADDL2	#4, SP	0686
	56	FF	A2 9E 001AD	MOVAB	-1(R2), R6	0690
			55 D4 001B1	CLRL	I	
			37 11 001B3	BRB	18\$	
7E	00	55	01 7A 001B5	15\$:	#1, I, #0, -(SP)	0691
50	8E		04 7B 001BA	EDIV	#4, (SP)+, R0, R0	
	08 AE40		84 DD 001BF	MOVL	(SP)+, LONG_ARRAY[R0]	0694
	03		50 D1 001C4	CMPL	R0 #3	
	56		05 13 001C7	BEQL	16\$	
			55 D1 001C9	CMPL	I R6	
			1C 12 001CC	BNEQ	17\$	
	14		AE DD 001CE	16\$:	LONG_ARRAY+12	0696
	14		AE DD 001D1	PUSHL	LONG_ARRAY+8	
	14		AE DD 001D4	PUSHL	LONG_ARRAY+4	
	14		AE DD 001D7	PUSHL	LONG_ARRAY	
	01		A0 9F 001DA	PUSHAB	I(R0)	0695
	00000000G		8F DD 001DD	PUSHL	#ANLOBJS_EXEFIXGLINE	
			03 DD 001E3	PUSHL	#3	
			7E D4 001E5	CLRL	-(SP)	
	68		08 FB 001E7	CALLS	#8, ANL\$FORMAT_LINE	
			55 D6 001EA	INCL	I	0690

EXEFIXUP
V04-000

EXEFIXUP - Analyze Fixup Info
ANL\$IMAGE_FIXUP_INFO - Analyze Fixup Info

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0000G	08	88	11	00297	BRB	22\$	0722	
	CF	68	E9	00299	BLBC	ANL\$GB_INTERACTIVE, 29\$	0755	
	78	00	FB	0029C	CALLS	#0, ANL\$INTERACT	0756	
		50	E9	002A1	BLBC	RO, 36\$		
		14	A3	D5	002A4	29\$: TSTL	0763	
			6A	13	002A7	BEQL	20(FP)	
	7E	01	CE	002A9	MNEGL	#1, -(SP)	0768	
	69	01	FB	002AC	CALLS	#1, ANL\$REPORT_LINE		
		04	AC	DD	002AF	PUSHL	IMAGE BASE	
		00000000G	8F	DD	002B2	PUSHL	#ANLOBJS_EXEFIXP	
			01	DD	002B8	PUSHL	#1	
			03	DD	002BA	PUSHL	#3	
	68	04	FB	002BC	CALLS	#4, ANL\$FORMAT_LINE		
	53	14	A3	C1	002BF	ADDL3	20(FP), FP, SP	
	52	84	DO	002C4	MOVL	(SP)+, COUNT	0771	
	55	01	DO	002C7	MOVL	#1, I	0781	
		37	11	002CA	BRB	32\$		
	57	54	D1	002CC	30\$: CMPL	SP END_PTR		
		09	1F	002CF	BLSSU	31\$		
		5A	DD	002D1	PUSHL	R10		
0000G	CF	01	FB	002D3	CALLS	#1, ANL\$FORMAT_ERROR	0782	
		2E	11	002D8	BRB	33\$	0781	
	7E	01	CE	002DA	31\$: MNEGL	#1, -(SP)	0782	
	69	01	FB	002DD	CALLS	#1, ANL\$REPORT_LINE		
	7E	04	A4	3C	002E0	MOVZWL	4(SP), -(SP)	
		64	DD	002E4	PUSHL	(SP)	0789	
		00000000G	8F	DD	002E6	PUSHL	#ANLOBJS_EXEFIXPSECT	
			02	DD	002EC	PUSHL	#2	
			02	DD	002EE	PUSHL	#2	
	68	05	FB	002F0	CALLS	#5, ANL\$FORMAT_LINE		
	7E	06	A4	3C	002F3	MOVZWL	6(SP), -(SP)	0790
0000G	CF	02	FB	002F9	CALLS	#2, ANL\$FORMAT_PROTECTION		
	54	08	C0	002FE	ADDL2	#8, SP	0794	
		55	D6	00301	INCL	I	0776	
	52	55	D1	00303	32\$: CMPL	I COUNT		
		C4	1B	00306	BLEQU	30\$		
0000G	08	6B	E9	00308	33\$: BLBC	ANL\$GB_INTERACTIVE, 34\$	0800	
	CF	00	FB	0030B	CALLS	#0, ANL\$INTERACT	0801	
	09	50	E9	00310	BLBC	RO, 36\$		
0000G	CF	00	FB	00313	34\$: CALLS	#0, ANL\$MAP_FIXUP_SECTION	0806	
	50	01	DO	00318	35\$: MOVL	#1, RO	0808	
		04	0031B		RET			
		50	D4	0031C	36\$: CLRL	RO		
		04	0031E		RET		0810	

; Routine Size: 799 bytes, Routine Base: \$CODE\$ + 0000

: 383 0811 1
: 384 0812 0 end eludom

EXEFIXUP
V04-000

EXEFIXUP - Analyze Fixup Info
ANL\$IMAGE_FIXUP_INFO - Analyze Fixup Info

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PSECT SUMMARY

Name	Bytes	Attributes
\$SPLITS	10 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)	
\$OWNS	8 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)	
\$CODE\$	799 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)	

Library Statistics

File	----- Symbols -----	Pages	Processing
	Total Loaded Percent	Mapped	Time
\$_255\$DUA28:[SYSLIB]LIB.L32;1	18619 25 0	1000	00:01.7

Information: 1
Warnings: 0
Errors: 0

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:EXEFIXUP/OBJ=OBJ\$:EXEFIXUP MSRC\$:EXEFIXUP/UPDATE=(ENH\$:EXEFIXUP)

Size: 799 code + 18 data bytes
Run Time: 00:17.0
Elapsed Time: 01:03.9
Lines/CPU Min: 2872
Lexemes/CPU-Min: 13669
Memory Used: 290 pages
Compilation Complete

0005 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
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GETSHOR

OB EXEREQ
REQ

EXEFIXUP
LIS

SHOWALL

ANALYZRMS
MAP

ANALYZ

ANALYZ008
MAP

EXEINPUT
LIS

EXESTUFF
LIS

EXEDRIVE

RMOREQ
REQ